

## Rat Placental Alkaline Phosphatase ELISA Kit | PLAP elisa kit

Rat Placental Alkaline Phosphatase ELISA Kit

CATALOG #  
**AAA82431**

REACTIVITY  
**Rat**

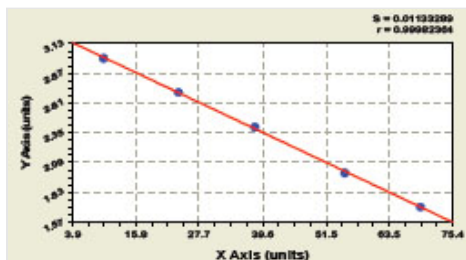
### PRODUCT SYNONYMS

Placental Alkaline Phosphatase; Rat Placental Alkaline Phosphatase ELISA Kit; PLAP elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                  |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                           |
| Assay Type              | Competitive                                                                                                                                                                          |
| Detection Range         | 0.5-10ng/mL                                                                                                                                                                          |
| Sensitivity             | 0.1ng/ml                                                                                                                                                                             |
| Intended Uses           | This PALP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat PALP. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                  |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for PLAP elisa kit

**Principle of the assay:** PALP ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-PALP antibody and an PALP-HRP conjugate. The assay sample and buffer are incubated together with PALP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PALP concentration since PALP from samples and PALP-HRP conjugate compete for the anti-PALP antibody binding site. Since the number of sites is limited, as more sites are occupied by PALP from the sample, fewer sites are left to bind PALP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PALP concentration in each sample is interpolated from this standard curve.

### NCBI AND UNIPROT INFORMATION

NCBI GI #

178464

|                                  |                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | 250                                                                                                                                                                         |
| Molecular Weight                 | 57,954 Da                                                                                                                                                                   |
| NCBI Official Full Name          | placental alkaline phosphatase                                                                                                                                              |
| NCBI Official Synonym Full Names | alkaline phosphatase, placental                                                                                                                                             |
| NCBI Official Symbol             | ALPP                                                                                                                                                                        |
| NCBI Official Synonym Symbols    | ALP; PALP; PLAP; PLAP-1                                                                                                                                                     |
| NCBI Protein Information         | alkaline phosphatase, placental type; Regan isozyme; glycerophosphatase; alkaline phosphomonoesterase; placental alkaline phosphatase 1; alkaline phosphatase Regan isozyme |
| UniProt Protein Name             | Alkaline phosphatase, placental type                                                                                                                                        |
| UniProt Gene Name                | <b>ALPP</b>                                                                                                                                                                 |
| UniProt Synonym Gene Names       | PLAP; PLAP-1                                                                                                                                                                |
| UniProt Entry Name               | PPB1_HUMAN                                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/plap-rat-elisa-kits/placental-alkaline-phosphatase/82431>